

SEQUENCE LISTING

<110> LEE, DANIEL H.S.  
PEPINSKY, R. BLAKE  
LI, WEIWEI  
RABACCHI, SYLVIA A.  
RELTON, JANE K.  
WORLEY, DANE S.  
STRITTMATTER, STEPHEN M.  
SAH, DINAH W.Y.

<120> NOGO RECEPTOR ANTAGONISTS

<130> 2681.0430002

<140> 10/567,381  
<141>

<150> PCT/US04/02702  
<151> 2004-01-30

<150> PCT/US03/25004  
<151> 2003-08-07

<150> 60/402,866  
<151> 2002-08-10

<160> 48

<170> PatentIn Ver. 3.2

<210> 1  
<211> 16  
<212> PRT  
<213> Rattus sp.

<400> 1  
Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr  
1 5 10 15

<210> 2  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 2  
Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr  
1 5 10 15

<210> 3  
<211> 35  
<212> PRT  
<213> Rattus sp.

<400> 3  
Ala Val Ala Ser Gly Pro Phe Arg Pro Phe Gln Thr Asn Gln Leu Thr  
1 5 10 15

Asp Glu Glu Leu Leu Gly Leu Pro Lys Cys Cys Gln Pro Asp Ala Ala  
20 25 30

Asp Lys Ala  
35

<210> 4  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 4  
Ala Val Ala Thr Gly Pro Tyr His Pro Ile Trp Thr Gly Arg Ala Thr  
1 5 10 15

Asp Glu Glu Pro Leu Gly Leu Pro Lys Cys Cys Gln Pro Asp Ala Ala  
20 25 30

Asp Lys Ala  
35

<210> 5  
<211> 10  
<212> PRT  
<213> Mus musculus

<400> 5  
Cys Arg Leu Gly Gln Ala Gly Ser Gly Ala  
1 5 10

<210> 6  
<211> 344  
<212> PRT  
<213> Homo sapiens

<400> 6  
Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu  
1 5 10 15

Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val  
20 25 30

Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu  
35 40 45

Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu  
50 55 60

His Gly Asn Arg Ile Ser His Val Pro Ala Ala Ser Phe Arg Ala Cys  
65 70 75 80

Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile  
85 90 95

Asp Ala Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu  
100 105 110

Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr Phe His Gly

115	120	125
Leu Gly Arg Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu		
130	135	140
Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr		
145	150	155
160		
Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp Asp Thr Phe Arg Asp		
165	170	175
Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Ser Ser		
180	185	190
Val Pro Glu Arg Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu		
195	200	205
Leu His Gln Asn Arg Val Ala His Val His Pro His Ala Phe Arg Asp		
210	215	220
Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Ala		
225	230	235
240		
Leu Pro Thr Glu Ala Leu Ala Pro Leu Arg Ala Leu Gln Tyr Leu Arg		
245	250	255
Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp		
260	265	270
Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Glu Val Pro Cys Ser		
275	280	285
Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Ala Asn		
290	295	300
Asp Leu Gln Gly Cys Ala Val Ala Thr Gly Pro Tyr His Pro Ile Trp		
305	310	315
320		
Thr Gly Arg Ala Thr Asp Glu Glu Pro Leu Gly Leu Pro Lys Cys Cys		
325	330	335
Gln Pro Asp Ala Ala Asp Lys Ala		
340		
<210> 7		
<211> 310		
<212> PRT		
<213> Homo sapiens		
<400> 7		
Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu		
1	5	10
15		
Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val		
20	25	30
Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu		
35	40	45
Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu		

50	55	60													
His	Gly	Asn	Arg	Ile	Ser	His	Val	Pro	Ala	Ala	Ser	Phe	Arg	Ala	Cys
65						70					75				80
Arg	Asn	Leu	Thr	Ile	Leu	Trp	Leu	His	Ser	Asn	Val	Leu	Ala	Arg	Ile
						85					90				95
Asp	Ala	Ala	Ala	Phe	Thr	Gly	Leu	Ala	Leu	Leu	Glu	Gln	Leu	Asp	Leu
						100					105				110
Ser	Asp	Asn	Ala	Gln	Leu	Arg	Ser	Val	Asp	Pro	Ala	Thr	Phe	His	Gly
						115					120				125
Leu	Gly	Arg	Leu	His	Thr	Leu	His	Leu	Asp	Arg	Cys	Gly	Leu	Gln	Glu
						130					135				140
Leu	Gly	Pro	Gly	Leu	Phe	Arg	Gly	Leu	Ala	Ala	Leu	Gln	Tyr	Leu	Tyr
						145					155				160
Leu	Gln	Asp	Asn	Ala	Leu	Gln	Ala	Leu	Pro	Asp	Asp	Thr	Phe	Arg	Asp
						165					170				175
Leu	Gly	Asn	Leu	Thr	His	Leu	Phe	Leu	His	Gly	Asn	Arg	Ile	Ser	Ser
						180					185				190
Val	Pro	Glu	Arg	Ala	Phe	Arg	Gly	Leu	His	Ser	Leu	Asp	Arg	Leu	Leu
						195					200				205
Leu	His	Gln	Asn	Arg	Val	Ala	His	Val	His	Pro	His	Ala	Phe	Arg	Asp
						210					215				220
Leu	Gly	Arg	Leu	Met	Thr	Leu	Tyr	Leu	Phe	Ala	Asn	Asn	Leu	Ser	Ala
						225					230				240
Leu	Pro	Thr	Glu	Ala	Leu	Ala	Pro	Leu	Arg	Ala	Leu	Gln	Tyr	Leu	Arg
						245					250				255
Leu	Asn	Asp	Asn	Pro	Trp	Val	Cys	Asp	Cys	Arg	Ala	Arg	Pro	Leu	Trp
						260					265				270
Ala	Trp	Leu	Gln	Lys	Phe	Arg	Gly	Ser	Ser	Ser	Glu	Val	Pro	Cys	Ser
						275					280				285
Leu	Pro	Gln	Arg	Leu	Ala	Gly	Arg	Asp	Leu	Lys	Arg	Leu	Ala	Ala	Asn
						290					295				300
Asp	Leu	Gln	Gly	Cys	Ala										
						305					310				

<210> 8  
 <211> 344  
 <212> PRT  
 <213> Rattus sp.

<400> 8  
 Met Lys Arg Ala Ser Ser Gly Gly Ser Arg Leu Pro Thr Trp Val Leu  
 1 5 10 15

Trp Leu Gln Ala Trp Arg Val Ala Thr Pro Cys Pro Gly Ala Cys Val

20

25

30

Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Arg Pro Gln Gln Gly Leu  
 35 40 45

Gln Ala Val Pro Ala Gly Ile Pro Ala Ser Ser Gln Arg Ile Phe Leu  
 50 55 60

His Gly Asn Arg Ile Ser Tyr Val Pro Ala Ala Ser Phe Gln Ser Cys  
 65 70 75 80

Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Ala Leu Ala Gly Ile  
 85 90 95

Asp Ala Ala Ala Phe Thr Gly Leu Thr Leu Leu Glu Gln Leu Asp Leu  
 100 105 110

Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr Phe Arg Gly  
 115 120 125

Leu Gly His Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu  
 130 135 140

Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr  
 145 150 155 160

Leu Gln Asp Asn Asn Leu Gln Ala Leu Pro Asp Asn Thr Phe Arg Asp  
 165 170 175

Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Pro Ser  
 180 185 190

Val Pro Glu His Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu  
 195 200 205

Leu His Gln Asn His Val Ala Arg Val His Pro His Ala Phe Arg Asp  
 210 215 220

Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Met  
 225 230 235 240

Leu Pro Ala Glu Val Leu Val Pro Leu Arg Ser Leu Gln Tyr Leu Arg  
 245 250 255

Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp  
 260 265 270

Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Gly Val Pro Ser Asn  
 275 280 285

Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Thr Ser  
 290 295 300

Asp Leu Glu Gly Cys Ala Val Ala Ser Gly Pro Phe Arg Pro Phe Gln  
 305 310 315 320

Thr Asn Gln Leu Thr Asp Glu Glu Leu Leu Gly Leu Pro Lys Cys Cys  
 325 330 335

Gln Pro Asp Ala Ala Asp Lys Ala  
 340

<210> 9  
<211> 310  
<212> PRT  
<213> Rattus sp.

<400> 9  
Met Lys Arg Ala Ser Ser Gly Gly Ser Arg Leu Pro Thr Trp Val Leu  
1 5 10 15  
Trp Leu Gln Ala Trp Arg Val Ala Thr Pro Cys Pro Gly Ala Cys Val  
20 25 30  
Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Arg Pro Gln Gln Gly Leu  
35 40 45  
Gln Ala Val Pro Ala Gly Ile Pro Ala Ser Ser Gln Arg Ile Phe Leu  
50 55 60  
His Gly Asn Arg Ile Ser Tyr Val Pro Ala Ala Ser Phe Gln Ser Cys  
65 70 75 80  
Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Ala Leu Ala Gly Ile  
85 90 95  
Asp Ala Ala Ala Phe Thr Gly Leu Thr Leu Leu Glu Gln Leu Asp Leu  
100 105 110  
Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr Phe Arg Gly  
115 120 125  
Leu Gly His Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu  
130 135 140  
Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr  
145 150 155 160  
Leu Gln Asp Asn Asn Leu Gln Ala Leu Pro Asp Asn Thr Phe Arg Asp  
165 170 175  
Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Pro Ser  
180 185 190  
Val Pro Glu His Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu  
195 200 205  
Leu His Gln Asn His Val Ala Arg Val His Pro His Ala Phe Arg Asp  
210 215 220  
Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Met  
225 230 235 240  
Leu Pro Ala Glu Val Leu Val Pro Leu Arg Ser Leu Gln Tyr Leu Arg  
245 250 255  
Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp  
260 265 270  
Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Gly Val Pro Ser Asn  
275 280 285

Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Thr Ser  
290 295 300

Asp Leu Glu Gly Cys Ala  
305 310

<210> 10  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
linker

<400> 10  
Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser  
1 5 10 15

<210> 11  
<211> 19  
<212> PRT  
<213> Rattus sp.

<400> 11  
Arg Val His Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu  
1 5 10 15

Tyr Leu Phe

<210> 12  
<211> 34  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 12  
tgaggagacg gtgaccgtgg tcccttgccc ccag 34

<210> 13  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 13  
ggggatatcc accatgaagt tgcctgttag gctgttg 37

<210> 14  
<211> 40  
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Degenerate primer

<400> 14

ggggatatcc accatgaggk ccccwgctca gytyctkgga

40

<210> 15

<211> 144

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic light chain peptide sequence

<400> 15

Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala  
1 5 10 15

Ser Ser Ser Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val  
20 25 30

Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu  
35 40 45

Val His Ser Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro  
50 55 60

Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser  
65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr  
85 90 95

Leu Lys Ile Ser Arg Val Asp Ala Glu Asp Leu Gly Val Tyr Phe Cys  
100 105 110

Ser Gln Ser Thr His Val Pro Phe Thr Phe Gly Gly Thr Lys Leu  
115 120 125

Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Ser His His  
130 135 140

<210> 16

<211> 144

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic light chain peptide sequence

<400> 16

Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala  
1 5 10 15

Ser	Ser	Ser	Asp	Val	Val	Met	Thr	Gln	Thr	Pro	Leu	Ser	Leu	Pro	Val
20							25							30	
Ser	Leu	Gly	Asp	Gln	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu
35							40							45	
Val	His	Ser	Asn	Gly	Tyr	Thr	Tyr	Leu	His	Trp	Tyr	Leu	Gln	Arg	Pro
50							55							60	
Gly	Gln	Ser	Pro	Lys	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Phe	Ser
65							70							80	
Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr
	85							90						95	
Leu	Lys	Ile	Ser	Arg	Val	Asp	Ala	Glu	Asp	Leu	Gly	Val	Tyr	Phe	Cys
	100							105						110	
Ser	Gln	Ser	Thr	His	Val	Pro	Tyr	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu
	115						120							125	
Glu	Ile	Lys	Arg	Ala	Asp	Ala	Ala	Pro	Thr	Val	Ser	Ile	Ser	His	His
	130						135							140	

<210> 17

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
heavy chain peptide sequence

<400> 17

Val	Gln	Leu	Gln	Glu	Ser	Gly	Ala	Glu	Leu	Val	Met	Pro	Gly	Ala	Ser
1														15	

Val	Lys	Met	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asp	Tyr	Trp
		20							25					30	

Met	His	Trp	Val	Lys	Gln	Arg	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile	Gly
														45	

Ala	Ile	Asp	Pro	Ser	Asp	Ser	Tyr	Ser	Ser	Tyr	Asn	Gln	Asn	Phe	Lys
														60	

Gly	Lys	Ala	Thr	Leu	Thr	Val	Asp	Gly	Ser	Ser	Ser	Thr	Ala	Tyr	Met
65														80	

Gln	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys	Ala
														95	

Arg	Arg	Ile	Thr	Glu	Ala	Gly	Ala	Trp	Phe	Ala	Tyr	Trp	Gly	Gln	Gly
														110	

Thr	Thr	Val	Thr												
				115											

<210> 18

```

<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      heavy chain peptide sequence

<220>
<221> MOD_RES
<222> (3)
<223> Variable amino acid

<400> 18
Leu Gln Xaa Ser Gly Ala Glu Ile Val Met Pro Gly Thr Ala Val Thr
  1           5           10          15

Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Phe Trp Met His
  20          25          30

Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Ala Ile
  35          40          45

Asp Pro Ser Asp Ser Tyr Ser Arg Ile Asn Gln Lys Phe Lys Gly Lys
  50          55          60

Ala Thr Leu Thr Val Asp Glu Ser Ser Ser Thr Ala Tyr Met Gln Leu
  65          70          75          80

Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Arg
  85          90          95

Ile Thr Glu Ala Gly Ala Trp Phe Ala Tyr Trp Gly Gln Gly Thr Thr
  100         105         110

Val Thr

```

```

<210> 19
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      heavy chain peptide sequence

<400> 19
Gly Phe Ser Leu Ser Thr Ser Gly Gly Ser Val Gly
  1           5           10

<210> 20
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      heavy chain peptide sequence

```

<400> 20  
Leu Ile Tyr Ser Asn Asp Thr Lys Tyr Tyr Ser Thr Ser Leu Lys Thr  
1 5 10 15

<210> 21  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
heavy chain peptide sequence

<400> 21  
Ser Arg Phe Trp Thr Gly Glu Tyr Asp Val  
1 5 10

<210> 22  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
light chain peptide sequence

<400> 22  
Arg Ala Ser Gln Asn Ile Ala Ile Thr Leu Asn  
1 5 10

<210> 23  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
light chain peptide sequence

<400> 23  
Leu Ala Ser Ser Leu Gln Ser  
1 5

<210> 24  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
light chain peptide sequence

<400> 24  
Gln Gln Tyr Asp Asn Tyr Pro Leu  
1 5

<210> 25  
<211> 22  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: Degenerate primer  
  
<400> 25  
aggtsmarct gcagsagtcw gg

22

<210> 26  
<211> 22  
<212> PRT  
<213> Unknown Organism  
  
<220>  
<223> Description of Unknown Organism: Epitope recognized by the 7E11 monoclonal antibody  
  
<400> 26  
Ala Ala Ala Phe Thr Gly Leu Thr Leu Leu Glu Gln Leu Asp Leu Ser Asp  
1 5 10 15  
  
Asn Ala Gln Leu Arg  
20

<210> 27  
<211> 10  
<212> PRT  
<213> Unknown Organism  
  
<220>  
<223> Description of Unknown Organism: Epitope recognized by the 7E11 monoclonal antibody  
  
<400> 27  
Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg  
1 5 10

<210> 28  
<211> 6  
<212> PRT  
<213> Unknown Organism  
  
<220>  
<223> Description of Unknown Organism: Epitope recognized by the 7E11 monoclonal antibody  
  
<400> 28  
Val Val Asp Pro Thr Thr  
1 5

<210> 29  
<211> 10

<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 29  
Leu Asp Leu Ser Asp Asp Ala Glu Leu Arg  
1 5 10

<210> 30  
<211> 11  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 30  
Leu Asp Leu Ala Ser Asp Asn Ala Gln Leu Arg  
1 5 10

<210> 31  
<211> 11  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 31  
Leu Asp Leu Ala Ser Asp Asp Ala Glu Leu Arg  
1 5 10

<210> 32  
<211> 11  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 32  
Leu Asp Ala Leu Ser Asp Asn Ala Gln Leu Arg  
1 5 10

<210> 33  
<211> 11  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope

recognized by the 7E11 monoclonal antibody

<400> 33  
Leu Asp Ala Leu Ser Asp Asp Ala Glu Leu Arg  
1 5 10

<210> 34  
<211> 11  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 34  
Leu Asp Leu Ser Ser Asp Asn Ala Gln Leu Arg  
1 5 10

<210> 35  
<211> 11  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 35  
Leu Asp Leu Ser Ser Asp Glu Ala Glu Leu Arg  
1 5 10

<210> 36  
<211> 12  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 36  
Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr  
1 5 10

<210> 37  
<211> 6  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 37  
Asp Asn Ala Gln Leu Arg  
1 5

<210> 38  
<211> 10  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 38  
Leu Asp Leu Ser Asp Asn Ala Gln Leu His  
1 5 10

<210> 39  
<211> 10  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 39  
Leu Asp Leu Gly Asp Asn Arg His Leu Arg  
1 5 10

<210> 40  
<211> 10  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 40  
Leu Asp Leu Gly Asp Asn Arg Gln Leu Arg  
1 5 10

<210> 41  
<211> 16  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 41  
Ala Asp Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr  
1 5 10 15

<210> 42  
<211> 16  
<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 42

Leu Ala Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr  
1 5 10 15

<210> 43

<211> 16

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 43

Leu Asp Leu Ser Asp Asn Ala Ala Leu Arg Val Val Asp Pro Thr Thr  
1 5 10 15

<210> 44

<211> 16

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 44

Leu Asp Leu Ser Asp Asn Ala Gln Leu His Val Val Asp Pro Thr Thr  
1 5 10 15

<210> 45

<211> 16

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 45

Leu Asp Leu Ser Asp Asn Ala Gln Leu Ala Val Val Asp Pro Thr Thr  
1 5 10 15

<210> 46

<211> 16

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 46  
Leu Asp Leu Ser Asp Asn Ala Gln Leu Ala Val Val Asp Pro Thr Thr  
1 5 10 15

<210> 47  
<211> 16  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 47  
Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr  
1 5 10 15

<210> 48  
<211> 19  
<212> PRT  
<213> Unknown Organism

<220>  
<223> Description of Unknown Organism: Epitope  
recognized by the 7E11 monoclonal antibody

<400> 48  
His Val His Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu  
1 5 10 15

Tyr Leu Phe